USSR/Chemistry - Rubber

FD-2639

Card 1/1

Pub. 50-4/18

Author

: Myshkis, A. V.

Title

: An attempt at the setting of time standards to be applied in the

pressure vulcanization of rubber products

Periodical

: Khim. prom. No 3, 141-144, Apr-May 1955

Abstract

: Describes time studies carried out at the "Kauchuk" Rubber Plant.

Four graphs, 6 tables.

Institution

: "Kauchuk" Rubber Plant

Zaytsev, I. I. and Myshkis. A. V. AUTHORS: SOV/138-58-4-6/13

Some Ways of Increasing the Output of Moulded Articles From Vulcanisation Presses. (Uvelicheniye s"yema TITLE:

formovykh izdeliy s vulkanizatsionnykh pressov).

PERIODICAL: Kauchuk i Rezina, 1958, Nr.4. pp. 20 - 26. (USSR).

ABSTRACT:

A very detailed criticism of an article by B. M. Gorelik and A. V. Ratner which appeared under the same title in "Kauchuk i Rezina", 1957, No. 1. There are 2 Tables,

and 3 Figures.

ASSOCIATION: Research Institute of Rubber and Latex Goods.

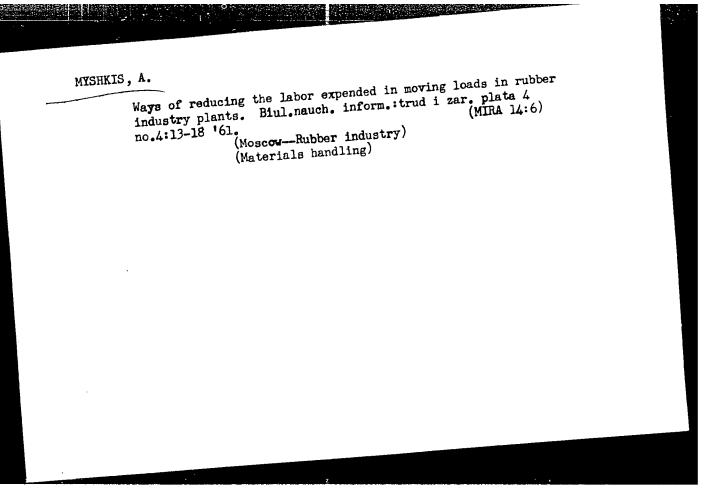
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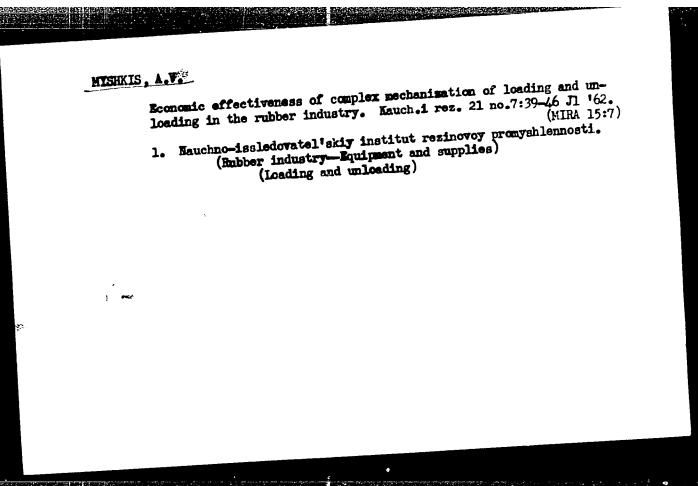
lateksnykh izdeliy).

Card 1/1 1. Rubber materials--Production 2. Presses--Operation

ZATENY, Iven Ivenovich; MISHIS. Abrem Venieminovich; POGOSTIN, S. Z., spets.red.; MAKANOVA, red.; PAKOV, S. I.. tekhn.red.

[Establishing technical standards in the rubber industry]
Tekhnicheskoe normirovanie truda v resinovoi promyahlenTekhnicheskoe normirovanie truda v resin





MYSHKIS, A.V.; SHAKH, A.D.

Economic efficiency of the mechanization of the manufacture of shaped rubber goods for engineering purposes. Kauch.i rez. 22 no.1:42-48 Ja '63. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti i Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni Lomdhosova.

(Rubber industry)

SHAKH, A.D.; MYSHKIS, A.V.

Functional structure of labor expenditure in the manufacture of industrial rubber goods. Kauch. i rez. 23 no.1:40-45 Ja *64. (MIRA 17:2)

1. Moskovskiy institut tonkoy khimicheskoy tekhnologii im. M.V. Lomonosova i Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti.

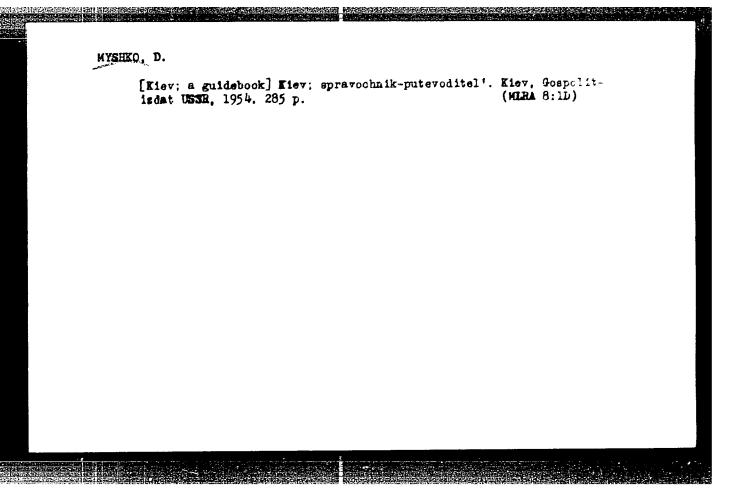
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MYSHKO, D. I.

Russia - History

Victory of the Russian and Ukrainian peoples over the Turko-Tataric invaders in 1677-1678. Visnyk AN URSR 24 no. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Unclassified.



MYSHKO, Dmitriy Ivanovich; IGNATKIN, Ivan Aleksandrovich; LYSENKO,
NIKOLSY Nikolayevich; MOSENZON, I., red.; LAPCHENKO, K.,
tekhn.red.

[Kiev; a reference manual and guidebook] Kyiv; putivnyk-dovidnyk.
Kyiv, Derzh. vyd-vo polit.lit-ry URSR, 1958. 398 p. (MIRA 11:12)

(Kiev-Description-Guidebooks)

IGNATKIN, Ivan Aleksandrovich [Ihnatkyn, Ivan Aleksandrovich];
INSENSO, Nikolay Nikolayevich; MYSHKO, Dmitriy Ivanovich;
MOSENZOL, I., red.; MEYEROVICH, S., tekhn. red.

[Kiev; guide and reference book] Kiev; putevoditel'spravochnik. Kiev, Ges. izd-vo polit. lit-ry USSR, 1962.

(MIRA 15:4)

(Kiev-Guidebooks)

MYSEC, Z. A. - "Areas of burning coal stans in the Kuzbaso and seeking the out with geophysical methods." Thous, 195%. Min Higher Advestion 75%, To skiller of Labor Red Fanner Polytec ric Inst isend S. N. Mirov. (Dissertation for degree of Candidate of Geologicomineralogical Sciences.)

10: Knizhnaya letonis', No 48. 26 November 1955. Moscow.

ACCESSION NR: AT4016828

\$/2604/63/000/048/0083/0086

AUTHOR: My*shko, Z. A.

TITLE: Determining the direction of magnetization on the basis of magnetic anomalies

SOURCE: Moscow. Vsesoyuznywy nauchno-issledovateliskiy Institut geofizicheskikh metodov razvedki. Razvedochnaya i promy*slovaya geofizika (Prospecting and industrial geophysics), no. 48, 1963, 83-86

TOPIC TAGS: magnetic anomaly, magnetization, prospecting, magnetism, magnetic vector

ABSTRACT: D. S. Mikov derived a relationship between the angle of deviation of the magnetic vector of plane figures from the vertical and the ratio of areas limited by a curve \underline{z} and axis \underline{x} : $\sin \gamma = -2 \frac{z}{z} - 1$

where Z_is the maximum negative area and Z₊ is the positive area. This relationship was used in the Kuznetsk coal fields (see Fig. 1 of the Enclosure). The results showed that the convergence of the magnetic angle of the investigated samples Cord 1/2

ACCESSION NR: AT4016828

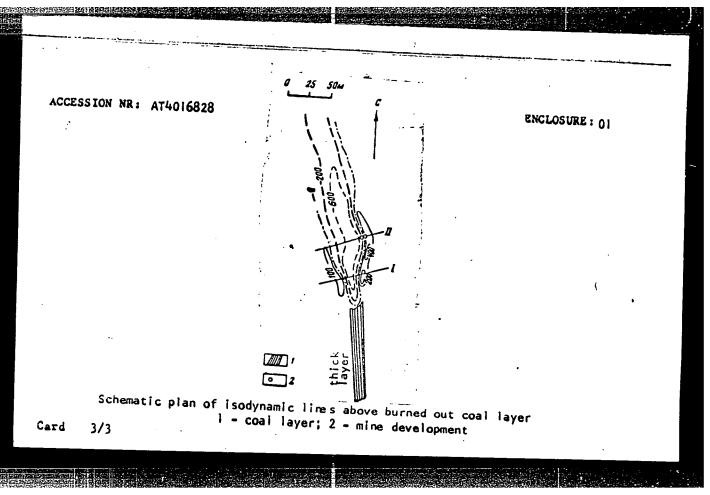
and the anomaly curve is good and in several cases the magnetic angle may be found without special sample selection, (which requires a long time and high cost). Orig. art. has: 14 formulas and 3 figures.

ASSOCIATION: Vsesoyuznyky nauchno-issledovatel'skly institut geofizicheskikh metodov razvedki, Moscow (All-Union Scientific-Research Institute of Geophysical Prospecting)

SUBMITTED: 00 DATE ACQ: 13Feb64 ENCL: 01

SUB CODE: EM NO REF SOV: 001 OTHER: 000

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135820015-5



G/014/61/000/004/005/005 D030/D109

AUTHORS:

Klekovkin, G.P., Engineer, Lecturer of Technical Sciences, Ulmann, I.E., Chief Engineer, Myshkov, K.N., and Antonovich, V.I.

TITLE:

Automatic set for impulse arc (vibrocontact-) built-up welding, Model KUMA-5M

PERIODICAL: Schweisstechnik, no. 4, 1961, 184-185

TEXT: The authors describe the set in detail and point out that it is used for repairing worn machine parts. It permits a weld-up layer of a thickness of 0.5 - 0.3 mm at a hardness up to 65 Rc. Compared with other welding heads for vibration arc built-up welding, "KUMA-5M" has the following advantages: stable welding process, low electrode wire loss, low consumption of carbon and manganese, increased hardness (up to 65 Rc) of the deposit, less difference in hardness of deposit (45-65 Rc), more uniform composition of deposit, reduction of porosity, increased density, possibility of built-up welding of crankshafts by means of a special device, angle of welding

Card 1/2

G/014/61/000/004/005/005 D030/D109

Automatic set for impulse arc

head to material to be welded can be set at will, small size of welding set, noiseless operation. The author gives the following technical data of the welding set: 10-stage wire-feed gear, v = 0.25 to 2.6 m/min; electric motor; N = 180 W, n = 3,000 RPM, V = 36 V, operational voltage = 12-24 V, wire thickness 1.5-2 mm. "KUMA-5M" is suitable for carrying out the following work: built-up welding of rotors and similar profiles of a diameter of 20 mm or more, and of crankpins and webs of automobile and tractor crankshafts; built-up welding of inside surfaces of drill holes of a diameter of 50 mm or more, front sides of rotating bodies, surfaces of key seats and key shafts, plane surfaces; and welding of flanges to shafts and to thin-walled tubes. There are 4 figures.

ASSOCIATION: Chelyabinsk Plant (Ulmann, I.E.); "S. Ordshonikidze"
Chelyabinsk Plant, Chelyabinsk Institute of Mechanization and
Eletrification of Agriculture (Myshkov, K.N. and Antonovich,
V.I.).

Card 2/2

| AUTHOR: Dem'yanov, | V. F.: Myshkov, S. K. (Lennyall) | |
|--|--|---|
| ORG: none | | |
| FFFLE: On the solution | n of certain optimal problems in nonlinear automati | c control systems |
| BOURCE: AN SSER. I | zvestiya. Tekinicheskaya kibernetika, no. 2, 1966, | 149-155 |
| | | |
| | ar automatic control system, optimal control, succe | e ssive |
| approximation, functio | nal equation | |
| approximation, function ABSTRACT: The author | nal equation ors state, in a formulation slightly different from the | at of Pontryagin's . |
| approximation, function ABSTRACT: The author "maximum principle" (protectory. Fismatris | nal equation ors state, in a formulation slightly different from the (Pontryagin, L. S., et al. Matematicheskaya teoriya, 1961), the necessary condition that must be satisfic. | at of Pontryagin's . a optimal'nyith ad by optimal contre |
| approximation, function ABSTRACT: The author "maximum principle" (protectory. Fismatris | nal equation ors state, in a formulation slightly different from the (Pontryagin, L. S., et al. Matematicheskaya teoriya | at of Pontryagin's . a optimal'nyith ad by optimal contre |
| approximation, function BSTRACT: The author "maximum principle" (protector. Fismatgis in a nonlinear automati | nal equation ors state, in a formulation slightly different from the (Pontryagin, L. S., et al. Matematicheskaya teoriya, 1961), the necessary condition that must be satisfic. | at of Pontryagin's . a optimal'nyith ad by optimal contre |
| approximation, function ABSTRACT: The author "maximum principle" (protector. Fizmatgis in a nonlinear automatic | ors state, in a formulation slightly different from the (Pontryagin, L. S., et al. Matematicheskaya teoriy, 1961), the necessary condition that must be entistic control system, for such problems as finding a expectation of the control system. | at of Pontryagin's . a optimal'nyith ad by optimal contre |

ACC NR. AP6024374

and finding v = U such that

$$I(v) = \min_{u \in V} I(u)$$
 (2)

where U is a class of controls, v is the optimal control. A theorem pertaining to the necessary optimality condition is formulated and proved: Theorem: So that the functional I(u), specified with respect to U and having its gradient within U, may reach its minimum for the control v = U, it is necessary, in the event of convexity of the functional I(u), and sufficient that

$$\min_{u \in \mathcal{U}} \int_{0}^{\tau} G_{\bullet}^{\bullet}(\tau) \left(u(\tau) - v(\tau) \right) d\tau = 0. \tag{3}$$

where $G_{v}(\tau)$ is the gradient of the functional I(u), calculated at the point u=v. A method of successive approximations is proposed for finding the equation satisfying the necessary optimality condition. The applicability of this method illustrated for the case of the control of the flight speed of an aircraft by adjusting the thrust of its engine. Orig. art. has: 2 figures, 43 formulas.

SUB CODE: 12, 4 09/ SUBM DATE: 20Aug64/ ORIG REF: 007

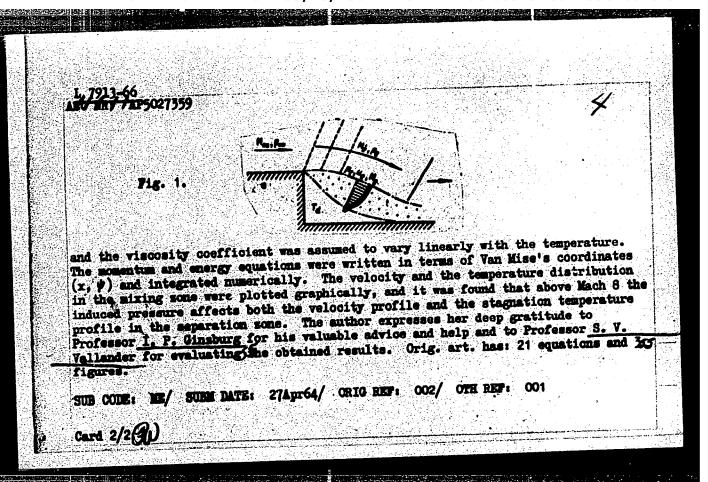
Card 2/2

MYSHKOV, VASILIY NIKITOVICH
780.1
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VENGRIYA EKONOMIKA I WNESHNYAYA TORGOVLYA (HUNGARY, ECONOMICS AND POREICH TRADE) MOSKVA, WNESHTONGIZDAT, 1956.

158 p. ILLUS., MAPS, TABLES.

| L 7913-66 BHT(1)/BHP(m)/FCS | S(k)/SMA(c) WW SOURCE COD*: UR/0043/65/000/004/0112/0 |)119 |
|--|---|--------------|
| ACC MRs AP5027359 | \mathcal{Z}_{λ} | |
| AUTHOR: Myshkova, L. I. | \mathcal{S}_{k}^{2} | |
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| TITLE: The effect of dissipat | tive and isentropic flow interactions on a given re nic speeds | |
| of bodies soving with hyperson | 96 et. Vestmik. Seriya matematiki, mekhaniki i astrono | aii, |
| SOURCE: Lemingrad. University no. 4, 1965, 112-119 | ot Agemis. | |
| in the second se | wiscid flow, boundary layer, isentropic flow, veloc a mixing some | 37 CA |
| distribution, west | to have | ٠ |
| ABSTRACT: The mixing problem | between viscous and inviscid streams in the base body was studied analytically. The sixing model in Fig. 1. The flow is assumed to be compressible, an | the a th |
| | el el settmed to de complete | |
| region of a two is shown in I | | |
| separation some in anomale in pressure ratio is expanded in | powers of the pressure partial $\frac{dA}{dx}$, where $\frac{dA}{dx} = k \frac{dx^*}{dx} (0 < k < 1)$. It was assumed to remain constant across the mixing UDC: 533.601. | |
| separation some is shown in I | n powers of the pressure parameters | |



13 SOV/101-58-6-6/13

AUTHORS: Zashchepin, A.N., and Myshkovskaya, S.A.

TITLE: Slag Portland Cement for the Concrete Pavements

of Roads and Airfields (Shlako-portland-tsement

dlya betonnykh pokrytiy dorog i aerodromov)

PERIODICAL: Tsement, 1958, Nr 6, pp 20-23 (USSR)

ABSTRACT: In several foreign countries, slag portland

cement with an addition of blast furnace slag of 14 to 70% is used for paving roads and airfields. In the USSR, the State Standard GOST 970-41 specifies the use of 20 to 85% of slag in concrete mixtures. Pure clinker with 15 to 30% granulated blast furnace slag is here investigated. The clinker was ground to a specific surface of

4,240 cm $^2/g$, the slag to 3,750, 6,000 and 8,000 cm $^2/g$. The concrete samples were saturated with water and then cooled to -15 to -20°C. After

Card 1/3 this, they were thawed in water of 10 to 17°C.

14 307/101-58-6-8.13

Slag Portland Cement for the Concrete Pavements of Roads and Airfields

The test results (Figure 1) show that the resistance increases with the specific surface of the cement and the slag. The resistance to compression and bending is, during the first seven days, 10-20% lower than that of pure clinker without slag, but after 28 days it is 10% higher. If the specific surface of the slag is increased from 3,750 to 8,000 cm²/g the resistance is higher already in the first seven days. Concrete with slag of 6,000 cm²/g and an air-attracting addition is, after 700-800 cycles of freezing and thawing, more frost resistant than pure clinker.

Card 2/3

15 10V/101-55-6-6/13

Slas Fortland Cement for the Concrete Pavements of Robels and Airfields

There are 2 sets of graphs, I table and I Soviet reference.

Card 3/3

VOLKOV, M.I., prof.; IVANOV, F.M.kand.tekhn.nauk; KLIMASHEV, F.S.,inzh.;
KOHOLEV, I.V., inzh.; KUMIEMKOV, B.I., inzh.; MYSHKOYSKAYA, S.A.,
kand.tekhn.nauk; EKRRASOV, V.K., kand.tekhn.nauk; SPERAHTOV, W.A.,
kand.tekhn.nauk; YAKUMIN, O.A., inzh.; MOTYLEV, Yu.L., red.;
LAKHMAN, F.Ye., tekhn.red.

[Metallurgical slags in road construction] Metallurgicheakie
shlaki v doroshnom stroitel'stve. Moskva, Mauchno-tekhn.isd-vo
M-va avtomobil'nogo transp. i shosseinykh dorog RSFSR, 1959.

(Road materials) (Slag)

(Road materials) (Slag)

MYSHKOVSKAYA, V.A. Formation of focal bilateral chorea. Zhur.nevr. i psikh. 56 mo.9: 709-713 '56. (MCRA 9:11) 1. Elinika nervnyth bolesney (sav. - prof. Ke.L.Venderovich [deceased]) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova (CHONIA, focal bilateral, form/mechanism (Rus))

MYSHKOVSKAYA, V.A.

Focal epilepsy in vascular diseases of the brain. Zhur.nevr. i psikh.
99 no.6:912-918 '59. (MIRA 12:12)

1. Kafedra nervnykh bolesney (gav. - prof. D.K. Bogorodinskiy) I
Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

(EPILEPST etiol.)

(BRAIN blood supply)

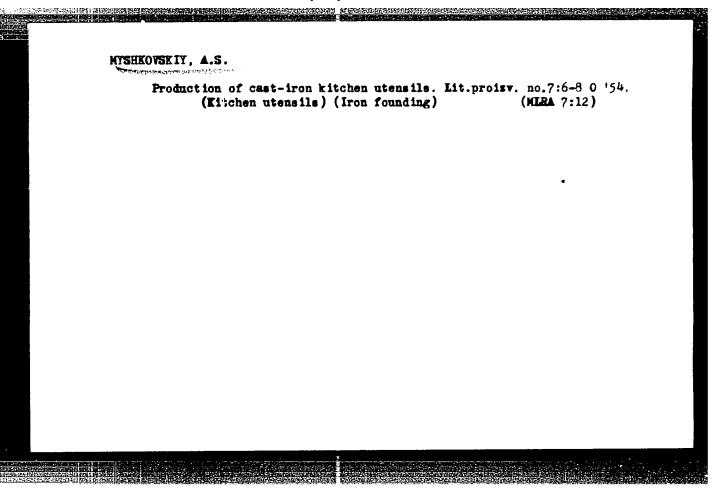
BOGORODINSKIY, D. K.; MYSHKOVSKAYA, V. A. (Leningrad)

Malignant connective tissue tumors of intracraniovertebral (craniospinal) localization. Arkh. pat. no.12:73-76

[MIRA 15:7]

1. Iz kafedry nervnykh bolezney I Leningradskogo meditsinskogo instituta imeni I. P. Pavlova.

(MEDULLA OBLONGATA-CANCER)



AUTHOR: Myshkovskiy, A.S. SOV/128-58-12-12/21

TITLE: The Casting in Chill Molds of Cast Iron Parts (Ctlivka chugun-

nykh detaley v kokil')

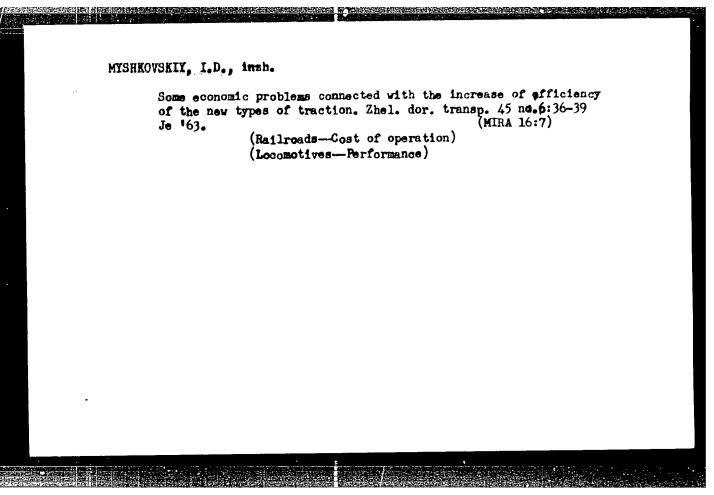
PERIODICAL: Liteynoye proizvodstvo, 1958, Nr 12, pp 21 - 22 (USSR)

ABSTRACT: Information is given on the different types of metallic

molds, used at the "Dnepromet" Plant for the production of cast-iron parts, such as bevel gears for chain drives; blocks with grooves; and kitchen range doors and frames. Technical characteristics of the molds are given. There

are 6 photos and 2 tables.

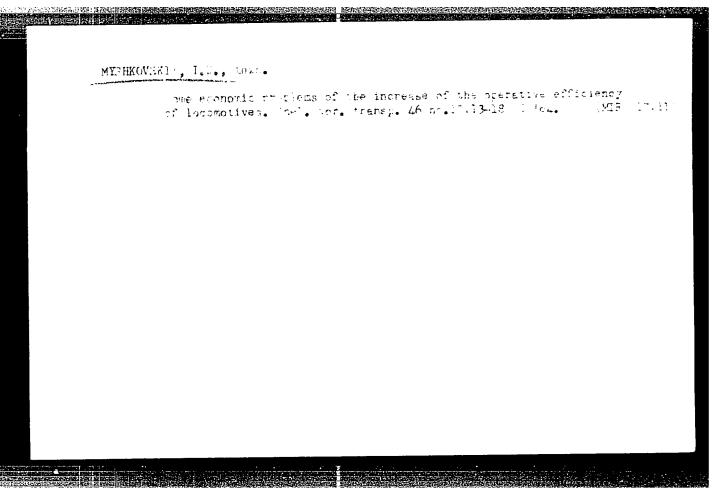
Card 1/1



MYSHKOVSKIY, I.D., inzh.

Automation of planning and analytical calculations on railroads. Vest. TSNII MFS 22 no.3:48-50 '63. (MIRA 16:7)

1. Upravleniye Moskovskoy zheleznoy dorogi. (Railroads—Management) (Railrpads—Electronic equipment)



137-58-6-12330

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 163 (USSR)

AUTHORS Nikolayev, K.G., Myshkovskiy, L.M.

TITLE: Welding Practice (Welding Technology and Equipment) Svar-

ochnoye proizvodstvo (Svarochnaya tekhnika i oborudovaniye)

PERIODICAL: Sb. inform. statey dlya sudostroiteley. Leningrad, Sud-

promgiz, 1957, pp 167-198

ABSTRACT: A description of welding equipment exhibited at the All-

Union Industrial Exhibition. Characteristics of power supplies, automatic gas-shielded arc welding units and welding outfits for flux welding, coated-electrode slag welding, and contact

welding machines are described briefly.

A.N.

1. Welding--USSR

Card 1/1

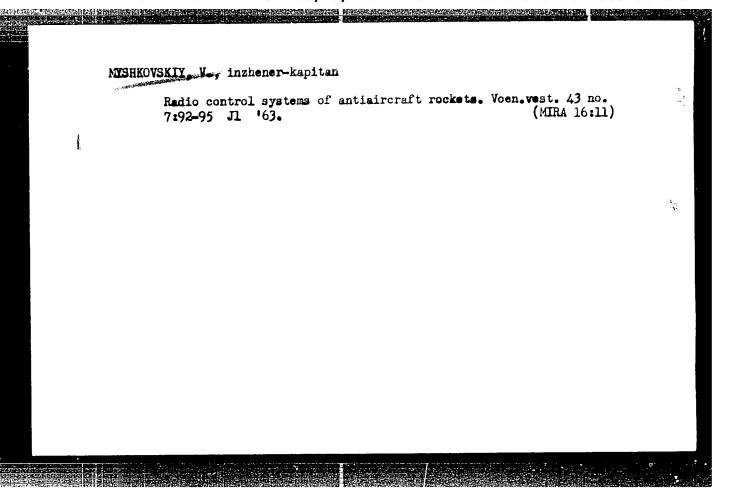
BOBRITSKIY, K. K.; MYSHKOVSKIY, S. A.

Insulation of the wheels of a one-rail truck. Put' i put. khos. 6 no.10:42 '62. (MIRA 15:10)

1. Predsedatel Obshchestvennogo konstruktorskogo byuro, Dneptopetrovsk (for Bobritskiy). 2. Zaveduyushchiy tekhnicheskim kabinetom Obshchestvennogo konstruktorskogo byuro, Dnepropetrovsk (for Myshkovskiy).

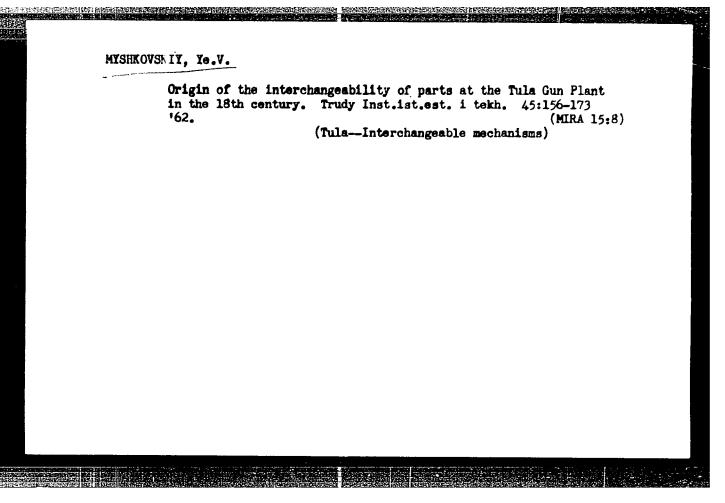
(Car wheels) (Electric insulators and insulation)

MYSHKOVSKIY, V. Give our youth a firm ideological background. Prof.-tekh.obr. 17 no.3:21 Mr '60. (MIRA 13:6) 1. Direktor tekhnicheskogo uchilishcha No.2, g.Minsk. (Communist education)



KATKOV, Nikolay Pavlovich; BASSEIN, Vladimir Vasil'yevich; KATKOV,
Mikhail Pavlovich; KUDRYAVTSEV, Nikolay Aleksandrovich;
HYSHKOVSKIY, V.A., insh., retsensent; SLOBTSOV, V.Ye.,
insh., retsensent; OLEV, S.M., insh., retsensent;
DUNAYEV, P.A., red.; YERMAKOV, N.P., tekhn. red.

[Mechanisation of auxiliary operations in forging; an album of drawings] Mekhanizatsiia protsessov goriachei shtampovki; al'hom chertezhei. Pod red. P.A.Dunaeva. Moskva, Mashgiz, 1963. 111 l. (MIRA 16:8) (Forging-Equipment and supplies)



MYSHLATEVA, L.V.; KRASNOSHCHEKOV, V.V.; SEDOVA, I.V.

New methods for the determination of silicon. Trudy MKHTI no.44:132-138

164.

(MIRA 18:1)

KRESHKOV, A.P.; MYSHLYAYEVA, L.V.; KHACHATURYAN, O.B.; KRASNOSHCHEKOV, V.V.

Potentiometric method for the determination of silicon in organosilicon compounds. Izv.vys.ucneb.zav.; khim. i khim.tekh. 7 no.2: 198-201 164. (MIRA 18:4)

l. Kafedra analiticheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta im. D.I.Mendeleyeva.

2/011/62/019/010/001/009 E112/E435

AUTHORS:

Myshlennikova, V.A., Li-Izey-Sya, Okhrimenko, I.S.

TITLE:

Preparation of organo-dispersed resin solutions,

based on high-molecular polyoxymethylene

PERIODICAL: Chemie a chemická technologie. Přehled technické a hospodářské literatury, v.19, no.10, 1962, 464, abstract Ch 62-6268 (Lakokras. Materialy, no.3, 1962,

12-14)

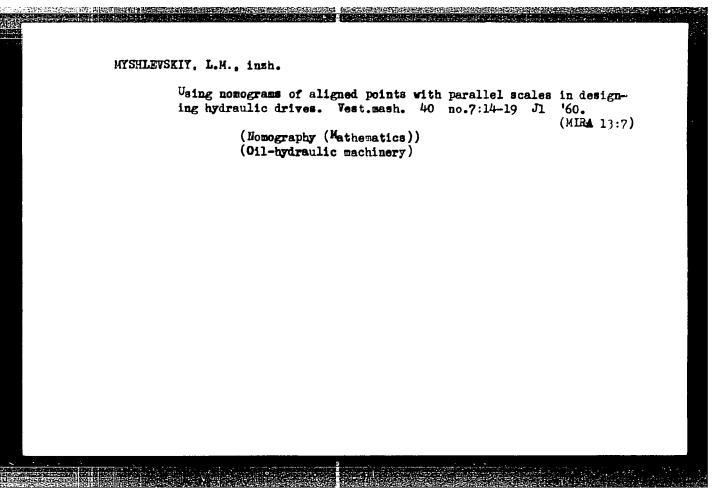
HER HEE TO THE PERSON OF THE P

Polyoxymethylene or polyformaldehyde is an excellent raw TEXT: material for the production of paints and lacquers. Its melting point is 173 to 175°C and it is highly crystalline. The polymer is, under normal conditions, insoluble in the conventional It only swells slightly in dibutylphthalate, pyridine and chlorophenol. It shows good swelling in cyclic hydrocarbons and an even better swelling in phenols. In some solvents formation of gels takes place at elevated temperatures. preparation of the dispersed organosols, which are to be converted later onto films by means of heating, the dispersing agent is an important component. Dibutylphthalate and pine oil proved to be Card 1/2

MYSHLENNIKOVA, V.A.; SERGEYEVA, L.A.; OKHRIMENKO, I.S.

Production and some properties of organodispersions of a fluorine-containing copolymer. Izv.vys.ucheb.sav.;khim.i khim.tekh. 6 no.1:128-132 '63. (MIRA 16:6)

 Leningradskiy tekhnologicheskiy institut imeni Lensoveta, kafedra tekhnologii lakov, krasok i nemetallicheskikh pokrytiy i kafedra organicheskoy khimii.
 (Polymers) (Fluorine compounds) (Dispersion)



83286

3/121/60/000/009/004/006 A004/A001

28.1000

Zaychenko, I.Z., Myshlevskiy, L.M.

AUTHORS:

Small-Size and Low-Inertia Blade-Type Hydraulic Engines

PERIODICAL:

Stanki i Instrument, 1960, No. 9, pp. 27-31

TEXT: Since the extensive development of the automation of machine tools and other machines demands cheap, quick-response and compact hydraulic engines of rotation type, the ENIMS has developed a range of blade-type hydraulic engines which are now mass-produced at the Yeletskiy zavod stanochnoi gidroapparatury (Yelets Plant for the Manufacture of Hydraulic Machine Tool Equipment). The authors point out that these hydraulic engines, in comparison with a-c and d-c electromotors, have considerably smaller overall dimensions, less weight and a lower moment of inertia. The comparative data are given in a tabel. The authors then give a detailed description and the overall and coupling dimensions of the hydraulic engine models MF 1(MO) 16-13, MG16-14, MG16-15A, MG16-15, and MG16-16A, emphasizing that blade-type hydraulic engines are of a double-acting type, i.e. during one shaft revolution two cycles of intake and discharge of the pressure fluid are taking place. A special feature of the hydraulic engine design is the

X

Card 1/2

S/121/60/000/009/004/006 A004/A001

Small-Size and Low-Inertia Blade-Type Hydraulic Engines

use of steel distributing disks which, in combination with the automatically tightened rear distributing disk, ensures a high resistance to wear and long life of the engine. This special feature of design makes blade-type hydraulic engines less sensitive against contaminations of the pressure fluid than e.g. piston-type hydraulic engines. In view of the infinitesimal small moment of inertia of the hydraulic engine itself, its reversing time without flywheel mass is also infinitesimal small. For the MG16-13 engine, e.g., the reversing time at 1,000 rpm amounts to 0.002 sec. A table is presented which shows the characteristics of hydraulic engines, expressing the dependence of efficiency and power on the number of shaft revolutions. The authors give a description of the connecting layout between hydraulic engine and pump. There are 9 figures, 2 tables and 3 Soviet references.

V

Card 2/2

ZAYCHENKO, I.Z.; MYSHLEVSKIY, L.M.; ZAYTSEVA, K.V.; KAMENETSKIY, G.I.; MAZYRIN, I.V.[deceased]; SHCHERBAKOV, V.I.; LOZHKIN, O.V.; CHIGAREVA, E.I., red.; KOVAL'SKAYA, I.F., tekhn. red.

4

[Development of the designs of hydraulic and pneumatic equipment and of lubrication and filtration systems for machine tools abroad] Razvitie konstruktsii gidravlicheskogo i pnevmaticheskogo oborudovanija, smazochnykh i fil'truiushchikh ustroistv metallorezhushchikh stankov za rubezhom; obzor. Moskva, TSINTIMASH, (MIRA 16:5) 1961. 101 p.

1. Moscow. Eksperimental'nyy nauchno-issledovatel'skiy institut metallorezhushchikh stankov.

(Machine-tools-Design and construction)

CIA-RDP86-00513R001135820015-5" APPROVED FOR RELEASE: 03/13/2001

S/121/61/000/006/002/012 D040/D112

AUTHORS:

Zaychenko, I.Z., Konovalov, V.M., Myshlevskiy, L.M., and

Stepanenko, G.M.

TITLE:

New long-life vane pumps

PERIODICAL: Stanki i instrument, no. 6, 1961, 6-10

TEXT: New vane pumps for the hydraulic drives of machine tools have been developed by ENIMS in cooperation with the Yeletskiy zavod stanochnoy gidroapparatury (Yelets Machine Tool Hydraulic Equipment Plant). The new "[" (G) series pumps will replace the old "I" (L) pumps, i.e. II (L1F), I 3 (L3F), and I 5 K (L5K), that have high hydraulic losses. The article gives detailed design description of the [12-2 (G12-2) and [12-4 (G12-4) and dimension charts of other pumps of the series. The major share of leakage in the old design is through the passage q3 (Fig. 2), i.e. from the groove under vanes into the intake space through the butt-end gap between the rotor and the discs. This explains why wear on the butt faces of the distributing discs raises oil loss so much. In the new design (Fig. 3) the distribution discs (8) and (7) are made of case-hardened 20 X (20Kh) steel with Rc 56-52 hardness, and the disc (8) is floating, i.e. it is pressed to the stator (3)

New long-life vane pumps

S/121/61/000/006/002/012 D040/D112

by springs (9) at the start of operation, and by oil pressure during operation. In Fig. 3, 1 is the pump casing, 2 the cover and 5 the rotor. This makes the assembling simpler and eliminates the danger of jamming. The output and intake ducts are open, the rotor has no trunnion. The G12-4 has eight vanes (4) and the G12-2 twelve. The rubber sealings (10) and (6) are standard. The stator profile and dimensions were chosen in accordance with recommendations by I.Z. Zaychenko (Ref. 2: "Stanki i instrument", no. 8, 1956). When coupled, the G12-2 and G12-4 pumps (Fig. 4) have one intake and two separate G12-2 pumps of 5-50 liter/min capacity can work at up to 1440 shaft rpm. The life-time of the new pumps is 4-5 times longer than that of the old they are replacing. Pressure on the floating distributing disc (pressing it to the stator) must have a certain value (a) that is obtained when the floating disc surface area under the effect of intake oil pressure (Fin) exceeds Fo 1.19 times, i.e. the following condition must be satisfied:

$$\mathcal{L} = \frac{F_{\text{in}}}{F_{\text{o}}} \qquad 1.19.$$
(5)

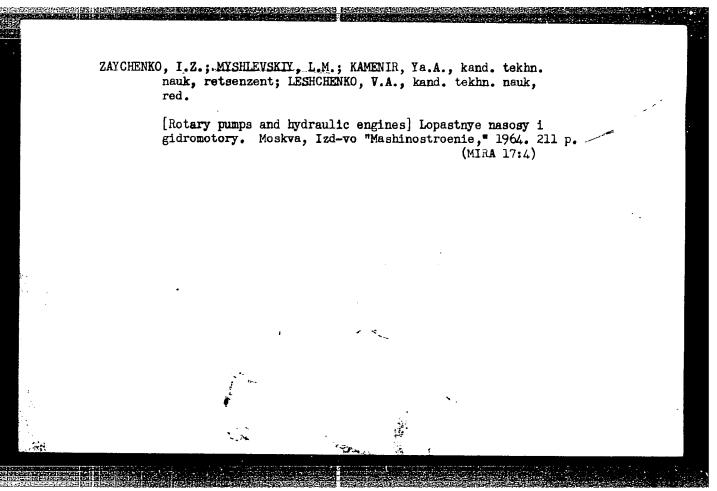
Card 2/6

New long-life vane pumps

S/121/61/000/006/002/012 D040/D112

The maximum work pressure of the Gl2-4 type pumps is 50 kgf/cm, and of the Gl2-2 - 64 kgf/cm. The Gl2-4 is smaller than the Gl2-2. Both are designed for application in new standard-unit power heads developed by the SKB-1 for Stankozavod im. S. Ordzhonikidze (Machine Tool Plant im. S. Ordzhonikidze) as well as other hydraulic drives where minimum size and weight are important. There are 12 figures, 3 tables and 2 Soviet references.

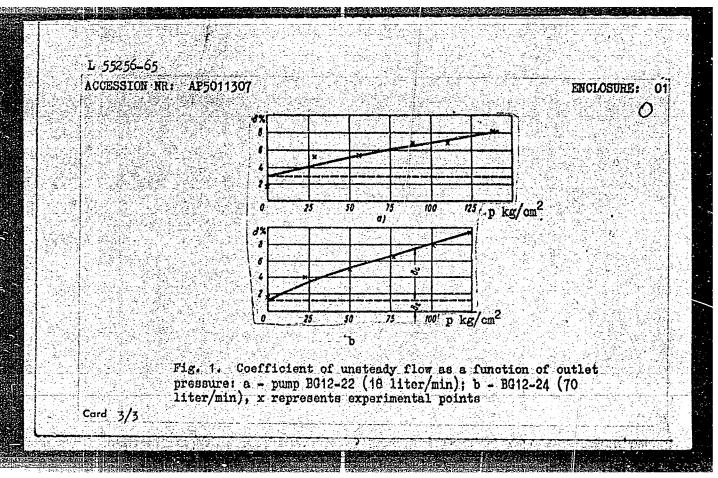
Card 3/6



| ADDATAN ADS | DR/0122/65/000/004/0041/0047 | | | |
|---|---|--|--|--|
| ACCESSION NR: AP5011307 | 621,67 | | | |
| (Engineer) | technical sciences); Myshlevskiy, L. M. β | | | |
| TITLE: Investigation of <u>unsteady flow</u> balanced (or unloaded) vanes | from flat double-action vane pumps with | | | |
| SOURCE: Vestnik mashinostroyeniya, no | . 4, 1965, 41-47 | | | |
| TOPIC TAGS: vane pump, pump/ BG12 22 | vane pump, BG12 24 vane pump | | | |
| force compensated vanes, the unsteady change and due to pressure changes dur were calculated theoretically and comp | flow from flat double-action vane pumps with flow components due to pumping chamber volumeing transit from inlet port to outlet port ared with experimental results from vane pump retically, it was found that the coefficient $\frac{\left(\frac{dV}{dt}\right)_{\text{finit}}}{\left(\frac{dV}{dt}\right)_{\text{finit}}}$ | | | |
| for the BG12-2 series should be for Q | = 25 - 70 liter/min, &g = 1.27 - 1.3%; for ease with increased numbers of vanes becoming | | | |

| 1.27%, 0.4% and 0.11% for 10, 1 Experimentally, og did not exc | 4 and 16 vanes respectively | (Q = 70 liter/min). - 70 liter/min. The |
|---|-------------------------------|---|
| coefficient of unsteady 110w du | 16 to little compressions. | decreasing number of |
| vanes, decrease in vane thickne | of the and he decreased by m | coviding a wedge-shaped |
| opening to extend the preseuri | ZHULON CIME. THE OVERSON WANT | well with experimental |
| is the sum of these two effects results (see Fig. 1 on the Enc. | losure). Orig. art. has: 7 | figures and 26 formulas. |
| ASSOCIATION: none | | |
| SUBMITTED: 00 | ENCL: 01 | SUB CODE: ME |
| | OTHER: 001 | |
| NO REF SOV: 004 | | and the first that the control of t |

"APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R001135820015-5



| acc na | AP6017442 | | SOURCE (| ODE: UR/0122/6 | 5/000/008/00 | |
|-------------|--------------------------------|----------------|-------------------------|----------------|---------------|----------|
| AUTHOR: | Myshlevskiy, L | M. (Engineer | 1 | | | 26 B |
| RG: na | 10 | | 1 | | | P |
| TRE: | G12-2 vane pum | s for hydraul | ic drives in s | achines | | |
| | Vestnik mashino | | | | | |
| OPIG TA | is: hydraulic p | wmp, hydrauli | c equi pm ent/BC | L2-2 hydraulic | pu zib | |
| BSTRACT | The authorise the Experime | r describes | the BG12-2 | Vane pump se | ries devel | 1 |
| JUUULINE | PARCALDS TOOL | S FOR USA | n hydraulia | detec Mhe | | |
| vere de | Tear on the | minate the | disadvantage | s of ordinar | yane . | |
| CHOGO | - WILLOW: SUCKE | raille de Rott | ice lite of | The nime and | 11-16- | |
| LITTLE CITY | se at pressur 8 vanes are r | eticacc llo | m the bressi | re of the wo | rici no | |
| Tule 1 | n the radial ous duty cond | direction a | o that the i | rit con onen | te undan | |
| AGTATT | GTECHAIGUS O | I the bumbs | are small s | nd the deale | 1 to almot | • |
| n this | sories. The | capacities | data are tel | ulated for 1 | pumps | |
| VAND IVE | ツ・マイ リスート 智能 リんパートリン 低端 | in this saw | | | | |
| D CANE | es from 5 to 213 / SUBM D | (v L/HID. | Origi art. h | s: l figure a | d 2 tables. | . [JPRS] |

KREMENCHUK, G.A.; MYSHLINA, N.D.

Comparative characteristics of glycerin mixture and borate buffer solution as preservatives of diphtheria bacilli. Trudy Irk.
NIIEM no. 7:349-353 *62 (MIRA 19:1)

1. Iz bakteriologicheskoy laboratorii dorozhnoy sanitarnoepidemiologicheskoy stantsii Vostochno-Sibirskoy zheleznoy dorogi.

MISHLYAVISEV, D.I., predsedatel'.

The Kiev District of the Capital. Gor.khoz.Mosk. 27 no.7:7-9 Jl '53. (MLRA 6:7)

1. Ispolnitel'nyy komitet Kievskogo rayonnogo Soveta deputatov trudyashchikhsya. (Moscow-Buildings) (Buildings-Moscow)

AUTHORS:

Ivanov, S.I., Shalinets, B.A., Myshlyayev, A.M. 47-6-36/37

TITLE:

A Conference on the Method of Teaching Physics (Konferentsiya

po metodike fiziki)

PERIODICAL:

Fizika v Shkole, 1957, # 6, page 93 (USSR)

ABSTRACT:

A scientific conference on the method of teaching physics took place at the Moskva Oblast' Pedagogical Institute with teachers from the city of Moscow and the Moscow Oblast' and representatives of the Moscow, Stalingrad, Krasnodar Mariyskiy [in Yoshkar-Old], Kabardino-Balkarskiy, Tula, Yaroslavl,

Berdichev, and

Thuya pedagogical institutes, the Institut of Psychology APN and the Kaluga Oblast' Institute for the Improvement of Teachers.

The following reports were heard and discussed: S.I. Ivanov - "The Methods of Methodical Researches", O.N. Lapina -"The Rise and Development of Concepts of Temperature and Quantity of Heat" (at the 7-class school), Ye.Kh. Lyatker -"The Rise and Development (at the pre-school age and the 7-class school) of Basic Concepts in the Field of Electricity", T. Ya. Ishkova - "The Rise and Development (during the pre-school age and at the 7-class school) of Concepts of Magnetism", A.V. Selenginskiy - "On the Development of

Card 1/2

A Conference on the Method of Teaching Physics

47-6-36/37

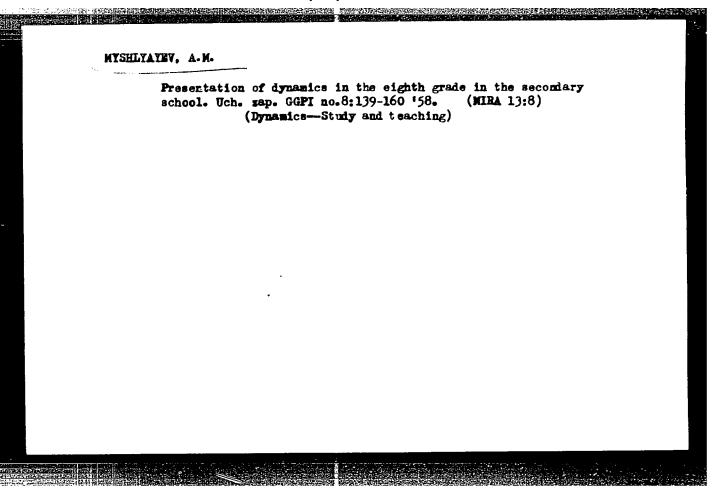
Concepts in the Field of Mechanics and Heat", L.I. Tigranova "The Psychological Peculiarities of Pupils in Learning the
Basic Concepts of Physics", A.N. Kaygorodov - "Conveying to the
Students Skill in Making Measurements Before They Take up
Studies in Physics", S.F. Shilova - "The Home Work of the Pupils
in Physics, Difficulties and Mistakes in Carrying It Out",
G.P. Kondrasheva - "Individual Observations Made on Two Pupils
Doing Their Home Work in Physics", N. Ye. Parfent'yeva - "The
Performance of Home Work in Physics by Pupils of a 7-class
Boarding School".

The conference adopted resolutions on continuing and coordinating the scientific-research work into the method of teaching physics, on the question of forming physical concepts and obtaining skill, and also on the method of organizing home work. The Chair for Methods in Teaching Mathematics and Physics of the Moskva Oblast' Pedagogical Institute assumed the duty of organizing a mutual information program and rendering consultation on this subject.

AVAILABLE:

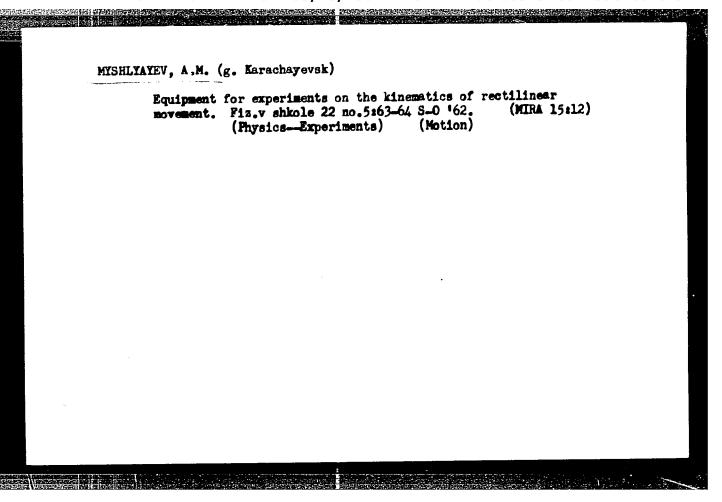
Library of Congress

Card 2/2



MYSHLYAYEV, A.M. (g. Karachayevsk); SEREBREMNIKOV, V. (Perm*)

Contents and structure of a new textbook for senior grades. Piz.
v shkole 22 no.5s60-62.
(Physics-Textbooks)

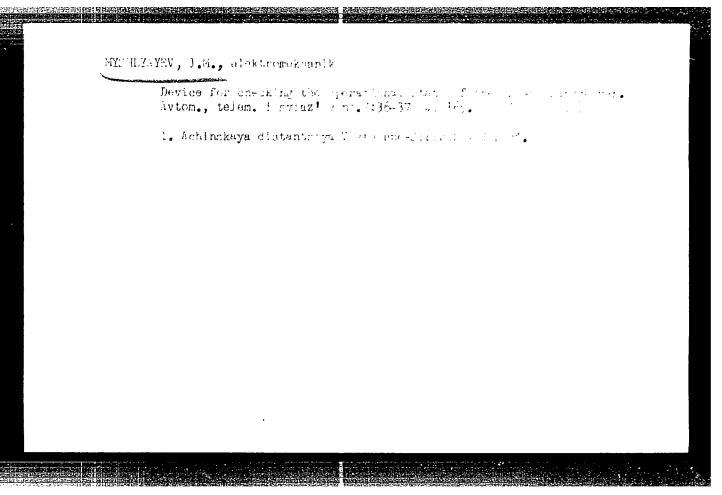


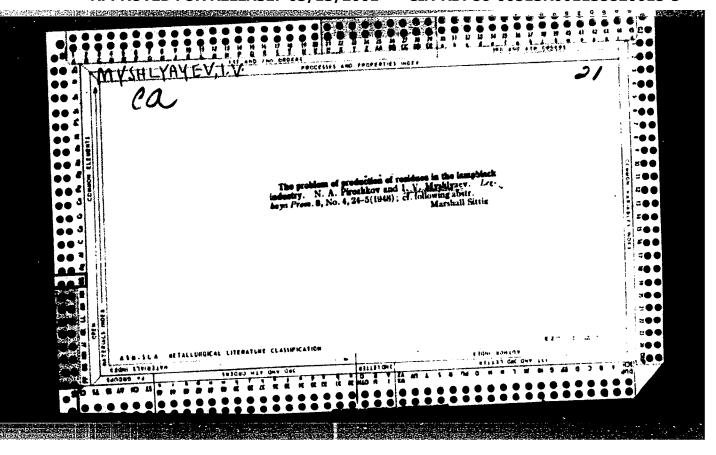
MYSHLYAYEV, A.M.; PUSTIL'NIK, I.G.; MOROZ, L.I.

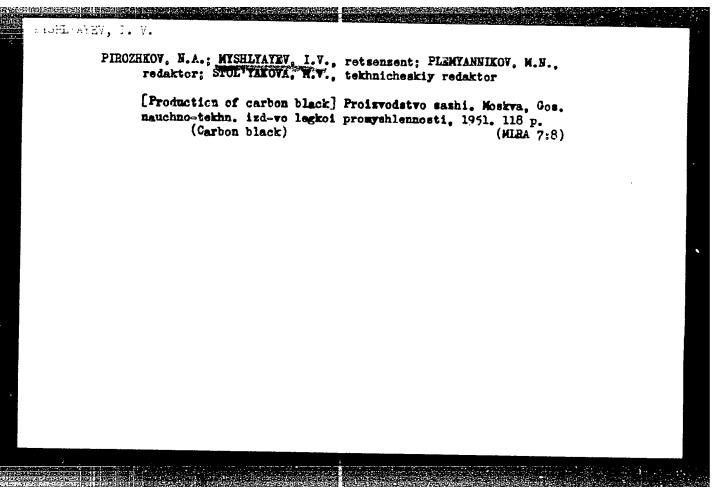
Discussing the contents and structure of the school physics course. Fis. v shkole 23 no.5:40-45 S-0 '63.

(MIRA 17:1)

1. Pedagogicheskiy institut, g. Karachayevsk (for Myshlyayev).
2. 36-ya srednaya shkola, g. Sverdlovsk (for Pustil'nik).
3. Institut vechernikh (smennykh) i zaochnykh shkol Akademii pedagogicheskikh nauk RSFSR, Leningrad (for Moroz).







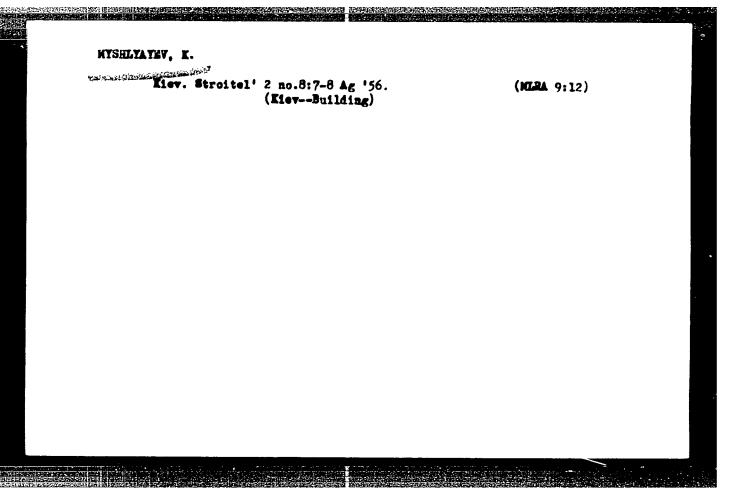
MYSHLYAYEV, I.V., nauchnyy sotrudnik; RUBINA, S.I., kand. tekhn. nauk; Prinimali uchastiye: ZALOMAYEV, Yu.L.; SAMSONOV, V.D., inzh.

The "Doubles,"-new decorative-facing double-ply materials made with the use of polyurethans foams. Nauch.-issl. trudy VMIIPIK no.14:75-83 '63. (MIRA 18:12)

l. Nachal'nik laboratorii Vladimirskogo nauchno-issledovatel'-skogo instituta sintel'cheskikh smol (for Zelomayev).

Transportation, Automotive
Innovators in automotive transportation, V pom. profaktive, 13, No. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.



MYSHLYAYEV, L. V.

"Study of Operation of Slat Suction Pump," Min Higher
Education USSR, Moscow Order Labor Red Banner Higher Technical School
imeni Bauman, Moscow, 1955. (Dissertation for the Degree of Candidate
in Technical Sciences)

SO: M-955, 16 Feb 56

LUBENFTS, V.D., kandidat tekhnicheskikh nauk; CHISTYAKOV, F.M., kandidat tekhnicheskikh nauk; MYSHLYATEV, L.V., inzhener.

Investigating high-pressure compressor performance. [Trudy] MVTU no.52:83-115 '55. (MLEA 9:8)

(Compressors)

LUBENETS, V.D., kand.tekhn.nauk; MYSHLYAYEV, L.V., kand.tekhn.nauk

Designing intermediate connectors for large horizontal compressors. [Trudy] MVTU no.95:85-94 '60. (MIRA 14:8)

(Compressors)

L 38612-65 ENT(m)/ENP(w)/ENA(d)/EPR/T/EMP(t)/EMP(b)/EMA(c) Ps-4 LJP(c) JD. 8/0181/65/007/002/0591/0599 ACCESSION NR: AP5005305 AUTHOR: Myshlysyev, M. M. TITLE: On the dislocation structure of aluminum during the creep process SCURCE: Fizika tverdogo tela, v. 7, no. 2, 1965, 591-599 TOPIC TACS: aluminum, creep, dislocation structure, dislocation loop, block structure, dislocation net ABSTRACT: The dislocation structure of polycrystalline aluminum during the course of creep was investigated with a JEM-6A electron microscope. The samples were deformed under uniaxial tension, with the stresses maintained constant to 1%. The change in temperature during the experiment did not exceed 1°C. The results have shown that the creep curves have a similar character for pure and commercial aluminum, but the latter has a larger initial deformation and a larger deformation accumulated during the creep. The results have established that short-duration plestic deformation under load gives rise to complicated irregular dislocation nets During the first stage of the creep, these tangled dislocation nets disappear and

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ACCESSION HR: AP5005305

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an equilibrium block structure is produced, which is conserved during the entire stationary creep stage. The block structure is retained also under considerable changes of the deformation conditions (temperature and stress), but is sensitive to the prior history of the metal. A correlation is established between the structural constant of the aluminum and the distances between the dislocations in the block boundaries. Other differences between pure and commercial aluminum are also discussed. "I am deeply grateful to V. L. Indenbom under whose guidance the present work was performed, and also to Yu. N. Rabotnov, S. N. Zhurkov, A. N. Orlov, and V. I. Betekhtin for interest in the work and for a discussion during the course of its performance." Orig. art. has: 5 figures, 2 tables, and 1 formula.

ASSOCIATION: Institut gidrodinamiki SO AN SSER, Novosibirsk (Institute of Hydro-dynamics, SO AN SSER)

SUBMITTED: 14Ju164

EECL: 00

SUB CODE: SS. MM

NR REF SOV: 003

OTHER: 000

Cord 2/2

MYSHLYAYEVA, L. V.

Kreshkov, A. P. and <u>Mvshlvaveva</u>. <u>L. V. -</u> "The increase in the water resistance of gypsum made articles," Trudy Mosk. khim.-tekhnol. in-ta im. Mondeleyeva, Issue 15, 1949, p. 75-79

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

MYSHLYAYEVA, L. V.

Kreshkov, A. P. and <u>Myshlyayeva</u>. L. V. - "The application of ethyl ether of orthstilicie acid for refractory bonding purposes." Trudy Mosk. khim.-teknol. in-ta im. Mendeleyeva, Issue 15, 1949, p/137-41

SO: U-5240, 17, Dec. 53, (Letopis 'Zhurnal 'nykh Statey, No. 25, 1949).

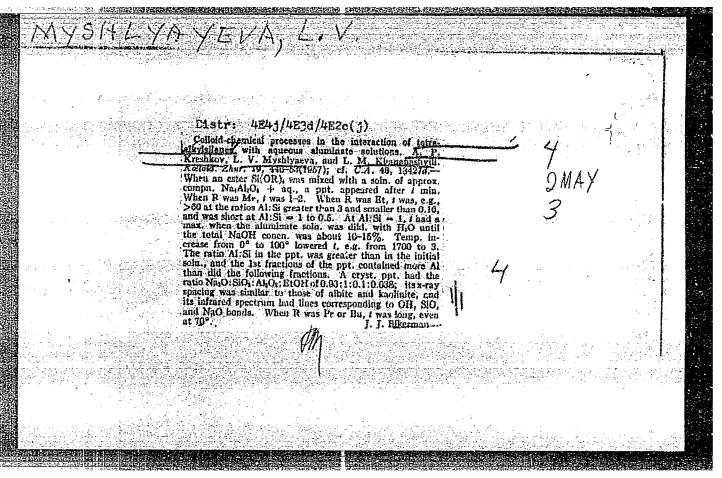
ERESHKOV, A.P.; BORK, V.A.; MYSHLYAYEVA L.L.; NESSONOVA, G.D.;
CHERLASSKIY, A.A., redaktor; LUR'YE, M.S., tekhnicheskiy
redaktor

[Analysis of silicon organic compounds] Analis kremniiorganicheskikh soedinenii. Moskva, Gos. nauchno-tekhnicheskoe izd-vo
khimicheskoi lit-ry, 1954. 255 p. (MLRA 8:1)

(Silicon organic compounds)

(Chemistry, Analytical)

| MYSHEAYEVA | |
|------------|---|
| | Bistri 4E41/1E3d/4E20(3) VAlkylalközyállánes: A. P. Kreshkov, T. V. Mysálaeva, and L. M. Rhanazásívelli. U.S.S.R. 168737. Ost. 25, 1897. The tille comyds. The obtained from alkylhalosiknés and the corresponding ales. For better results the alkylhalosikinés prior to reacting with the ales, are transformed into alkylphenylaminesiknes. M. Hisseh |
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KRESHKOV, A.P.; MYSHLYAYEVA, L.V.; KHANANASHVILI, L.M.

Interaction of tetraalkoxysilanes and their derivatives with several classes of inorganic compounds. Trudy MERTI no.24:333-347 *57.

(Silane) (Hydroxides)

L, V. MYSHLYAYEVA

USSR/General Topics - Methodology, History, Scientific

A-1

Institutions and Conferences, Instruction, Problems Concerning Bibliography and Scientific Documentation.

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 5.

Author : A.P. Kreshkov, L.V. Myshlyayeva.

Inst : D.I. Mendeleyev Institute of Chemical Technology, Moscow.

Title : Importance of Some Works of D.I. Mendeleyev and A.M.

Butlerov with Reference to Silicon-Organic Compounds.

Orig Pub : Tr. Mosk. khim.-tekhnol. in-ta im. D.I. Mendeleyeva,

1957, vyp. 25, 33-37

Abstract : Bibliography with 12 titles.

Card 1/1

EHAMAHASHVILI, L.M.; MYSHLYAYEVA, L.V.; MIKHALEV, B.M.; SHKOL'NYY, V.Ye.

Reflect of the aqueous solutions of sodium aluminates on alkylakoxysilanes. Zhur.prikl.khim. 30 no.2:263-271 F '57.

(Marka 10:5)

1.Kafedra analiticheskoy khimii Moskovskogo khimiko-tekhnologicheskogo instituta imeni D.I. Mendeleyeva.

(Sodium aluminates) (Silane)

07/7, - 1-1-15/66 Mychlysyev , L. V., Thanna dwll , L. J. . THOUSE TITLE: Synthesis of Organosilicon expectation from this ileast. (Folucheniye kremneorganiches tith oksisoyedinaniy iz aminosilanov) I. Synthesis of the Akyl-Alkoxy Tilanes From Alvelthenyl aminosilones "high are Obtained From alkyl-Caloresilanes (I. Poluchoniye alkilalkoksisilanov iz alkilfenileminosilanov, sintezirnyemykh no ornove elkilkhlorsilanov FURIODICAL: Zhurnol obshehey chiri , 1958, "ol. 28, Nr 8, pp. 2112- 114 (USSR) With the further development of the chemistry of organosili-ABSTRACT: con compounds their practical exploitation has as well increased. The alkyl-alkoxy silanes are used in the practice of the modification of various classes of inorganic and organic compounds and as semiproducts for the synthesis of the high-molecular organosilicon compounds (Ref 1). The rolloming synthesis methods of these compounds are known from publications: 1) Akylation of the alkoxy silanes or halogen alkoxysilanes with the aid of organozing compounds and metallic Card 1/3 sodium (Ref 2) (2 Schemes). 2) Albelation of the alkowy salan

107/79-28-8-25/66

Lynthesis of Organosilicon Oxycompounds From Aminosilenec. I. Synthesis of the Alkyl-Alkoxy Silanes From lkyl-Thenyl Isironilenes Thick are not incl. From Alkyl-Chlorosilanes

or halogen oxygilanes with the aid of organomagene into conpoun's (lefs (-5)) or organilitaium compounts (lefs δ , 7) (2 Schemer). 3) ubstitution of the hydrogen in alkyt allege by alkoxy groups in the case of action of alcohols in the presence of lithium-, sodium-, potassim-, and rublium elecholate (1 scheme). 4) Sthemisic tion of the alkyl mileson silanes with the ril of rloome). Those m those have, homever, partition hortcomings. Only that fourth method can be used sconomically, though the production of products is accompanied by secondary relations. The suthors worked out a new synthesis methor of the alkyl-clkomy tlames. It consists in the transformation of the alkyl-chlore ilanes with aniline with subsequent treatment with the electronic of the produced alkyl-phonyl amino cilanes (both reaction processes are given in the schemes (a) nd (b)). The gill or the scheme (a) amounted to 100 . For the others (b) to 80 - 95 %. There are 12 i terence , that thick is the beat

Cerd 2/3

| Synthesis of Organosilicon Oxycompounts from minosilans | | | | | |
|---|---------------|--|--|--|--|
| From Alkyl-Chlorosilanes | | | | | |
| TUPMITTHD: | July 10, 1957 | | | | |
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| Card 3/3 | | | | | |
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KRRSHKOV, A.P.; MIKHAYLENKO, Yu.Ya.; MYSHLYAYEVA, L.V.; KHANANASHVILI, L.M.

Investigating the products of the reaction of some silicon organic compounds with water-alkaline solutions of aluminates, stannates, and plumbites by means of infrared absorption spectroscopy. Zhur.prikl. khim. 31 no.11:1746-1749 N '58.

(Silicon organic compounds--Spectra)

(Spectrum analysis)

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AUTHORS: Kreshkov, A P., Keshishyan, T. N., SOV/72-59-4-3/21

Myshlyayeva, L. V., Khananashvili, L. M.

TITLE:

Investigation and Application of Synthetic Organic Silicates (Issledovaniye i primeneniye iskusstvennykh organicheskikh

silikatov)

PERIODICAL:

Steklo i keramika, 1959, Nr 4, pp 11-14 (USSR)

ABSTRACT:

The theoretical bases of the formation of organic silicates are shown in the papers by A. P. Kreshkov. A. N. Chivikova, V. A. Matveyev, G. N. Nessonova, M. L. Darashkevich (Ref 1). The synthetic silicates have a number of valuable properties. good adhesion to glass, metal, asbestos, tissues, and abrasives They may be used for the production of films for glass and metal which do not break in heating and they are also highly acid—proof. The products which are obtained on the basis of alkylalkoxy—silanes are characterized by a good solubility in water. Their aqueous solutions are used as hydrophobic impregnations of building material. A. P. Kreshkov, L. V. Myshlyayeva, L. M. Khananashvili (Ref 2) carried out their spectrum and X-ray structural analyses as well as the micro-

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crystalloscopic investigation. Since it is possible to use

Investigation and Application of Synthetic Organic SOV/72 59-4-3/21 Silicates

the obtained products as glues and coatings at high temperatures their behaviour in heating was thermographically investigated. For this purpose the self-recording pyrometer of the Academician N S Kurnakov was used as well as the torsion balance of the VT type. In these investigations the authors refer to the papers by L. M. Khananashvili, L. V. Myshlyayeva, B. M. Mikhalev, V. Ye. Shkol'nyy (Ref 3) The characteristics of the products are given in the table. On figures 1, 3, 5, and 6 the beating curves of the products 1, 2, 5, and 6 are plotted and on figures 2 4 and 7 the curves of weight in heating of the products 1, 2; and 6 are given. The crystallo-optical investigations were performed on the basis of the paper by D. S. Belyankin, V. V. Lapin, N. A. Toropov (Ref 4) As may be seen from the copyrights of A. P. Kreshkov. L. V. Myshlyayeva, L. M. Khananashvili (Ref 5) the hitherto used skin glue which is a shortage-good may be replaced by a glue on the basis of synthetic silicates for the gluing of tissues to grinding disks. The products obtained may be used in various fields of building and silicate material industry There are 7 figures : table, and 6 Soviet references

Card 2/2

MYSHLYAYEVA, L.V.; KOBYZSKAYA, G.V.

Investigation of the reactions of the interaction of some silicones with water suspensions of cements and clinker minerals. Trudy
MKHTI no.27:315-320 *59. (MIRA 15:6)

(Silicon organic compounds)

CC735

S/079/60/030/04/68/080 B001/B011

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AUTHORS:

Kreshkov, A. P., Myshlyayeva, L. V., Khananashvili, L. M.

TITLE:

Investigations in the Field of Aminosilanes. II. Methods of

Synthesizing Some Tetraalkoxy Silanes

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1347-1350

TEXT: The authors discuss the traditional methods of synthesizing tetra-alkoxy silanes (Refs. 1-7). According to Ref. 4, the ternary mixture Si(OCH₃)₄-CH₃OH-HCl boils at 69°. These components react with one another in two stages: 1) by reaction of HCl with the alcohol, under formation of methyl chloride and water, 2) by the hydrolysis of ester by means of the separated water until the precipitate nSiO₂·mH₂O is formed. On analyzing the reaction products with a lower boiling temperature than that of SiORCl₃, the authors found them to contain considerable quantities of tetraalkoxy silanes and alcohol. The change in the composition of low-boiling fractions with temperature is represented in the form of a triangular diagram in the co-ordinates Si(OR)₄-CH₃OH-HCl. Analytical and graphical data were similar for Card 1/3

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Investigations in the Field of Aminosilanes. II. Methods of Synthesizing Some Tetraalkoxy Silanes

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some syntheses, which fact made it possible for this diagram to be used for the quick determination of the composition of the mixture by way of determining one component (HC1). Processes were investigated which take place in the synthesis of tetraalkoxy silanes. It was found that some esters of orthosilicic acid can be obtained in much better yields by a complementary treatment of the side products as are obtained in the esterification with SiCl 4. A new method of synthesizing tetraalkoxy silanes was worked out by reacting chlorosilanes with different amines with a subsequent alcoholic treatment of the resulting amino silanes:

SiCl₄ + 8RNH₂ ---> Si(NHR)₄ - 4RNH₂.HCl; Si(NHR)₄ + 4R'OH ---->

 \longrightarrow Si(OR')₄ + 4RNH₂ (R = CH₃, C₆H₅, CH₃C₆H₄).

There are 1 figure and 14 references, 12 of which are Soviet.

Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. ASSOCIATION: Mendeleyeva (Moscow Institute of Chemical Technology imeni D. I. Mendeleyev)

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ACCESSION NR AMLOO8922

BOOK EXPLOITATION

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Kreshkov, A. P.; Bork, V. A.; Bondarevskaya, YE. A.; My*shlyayeva, L. V.; Syavtsillo, S. V.; Shemyatenkova, V. T.

Practical handbook on analysis of monomeric and polymeric silicones (Prakticheskoye rukovodstvo po analizu monomerny#kh i polimerny#kh kremniyorganicheskikh soyedineniy), Moscow, Goskhimizdat, 1962, 5lll p. illus., biblio., index. Errata slip inserted. 6,000 copies printed.

TOPIC TAGS: monomeric silicone, polymeric silicone, silicon, carbon, quality control, lacquer, enamel

PURPOSE AND COVERAGE: This book is a handbook on analysis of monomeric and polymeric silicone compounds. It gives the fundamentals of the theory and modern chemical, physical, and physical-chemical methods of analyzing silicon compounds, methods of determining their physical constants and structure, methods of analyzing the basic chemical products used in their production, and also the methods used in experimental and industrial facilities for quality control. The book is intended for engineers, technicians, and researchers of research and plant laboratories and also for students and graduate students in the field of elemento-organic compounds.

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Kreshkov, A. P., Myshlyayeva, L. V., Krasnoshchekov, V. V.

AUTHORS: TITLE:

Methods for determining silicon in organosilicon compounds and their comparative evaluation. Silicon determination in

hydrolyzable organosilicon compounds

PERIODICAL:

Plasticheskiye massy, no. 12, 1962, 51-55

TEXT: Si was determined gravimetrically, volumetrically and colorimetrically in hydrolyzable organosilicon compounds of the general formula SiR, where

R is a methoxy to hexyloxy, phenyloxy, acetoxy, furfuryloxy or isothiocyanate radical, also in polymers of these compounds and in resins modified with these compounds. The utility of these analytic methods is compared. (1) Gravimetric determination by hydrolysis and weighing of the calcined SiO2: Only the methoxy, phenoxy, acetoxy, furfuryloxy and isothic yanate

compounds can be hydrolyzed quantitatively and with a satisfactory rate in ammoniacal solution. Hydrolysis in HCl requires for the methoxy compound

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Methods for determining silicoh ...

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a HCl concentration of 1:10, for ethoxy and propoxy compounds 1:1, and for the higher radicals concentrated HCl. (2) The volumetric determination was performed according to L. Kalman, R. Vago (Magyar kem. folyoirat, 64, 123 (1958)): Hydrolysis of the substance analyzed with 40% aqueous-alcoholic HF solution, neutralization of $H_2 \text{SiF}_6$ with KOH, hydrolysis of $K_2 \text{SiF}_6$ with CaCl₂ and iodometric HCl determination. (3) Si was determined colorimetrically by treating the substance with 15% KOH and 5% ammonium molybdate, reduction with Na₂SO₃ + Na₂SO₄ and by colorimetry of the blue solution formed. Conclusion: For industrial laboratories and scientific research laboratories the volumetric method is recommended, since it requires little time (20-30 min) and its results almost equal those obtained in gravimetrical analysis. There are 7 tables.

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AUTHORS:

Kreshkov, A. P., Myshlyayeva, L. V. and Soboleva, D. A. 1032/1232

TITLE:

An investigation of the interaction of trimethyl-methoxysilane with an aqueous alkaline

solution of sodium aluminate

PERIODICAL: Zhurnal obshchei khimii, v. 32. no. 7, 1962, 2190-2193

TEXT: The reaction of trimethyl-methoxysilane with sodium aluminate in an aqueous solution leads, under certain conditions, to the formation of a crystalline product, sodium bis-(triimethylsilyl)-aluminate. The reaction mechanism is described as:

$$(CH_3)_3SiOCH_3 + H_2O \implies (CH_3)_3SiOH + CH_3OH$$

$$2(CH_3)_3SiOH + NaAlO_2 \rightarrow [(CH_3)_3Si]_2O_2AlONa + H_2O$$

A side reaction of condensation of trimethyl-silancl into hexamethyl-disiloxane takes place.

The method of preparation of sodium bis-(trimethylsilyl)-aluminate, and the product obtained, results of its structure determination by X-rays, its infra red spectrum, and its properties are given. It crystallises in the form of needles. The birefringent crystals are light polarising; could not be fused, and carbonised when heated. There are 3 figures and 1 table.

ASSOCIATION: Moskovskii khimiko-tekhnologicheskii institut im. D. I. Mendeleyeva (Moscow Chemical-

Technological Institute im. D. I. Mendeleyev)

SUBMITTED:

July 10, 1961

Card I/I ·

KRESHKOV, A.P.; MYSHLAYAYEVA, L.V.; KHACHATURYAN, O.B.; KRASNOSHCHEKOV, V.V.

Conductometric analysis of silicon in organosilicon compounds. Zhur. anal. khim. 18 no.11:1375-1379 N '63. (MIRA 17:1)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I. Mendeleyeva.

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EWP(j)/EPF(c)/EWT(m)/BDS

AFFTC/ASD/ESD-3

Po-4/Pr-4

ACCESSION NR: AP3004563

S/0032/63/029/008/0924/0926

AUTHORS: Kreshkov, A. P.; My*shlyayeva, L. V.; Krasnoshchekov, V. V.

TITLE: Benzidine method for determination of silicon in some organic silicon compounds. Author's certificate No. 151858./ Bulletin of Inventions, No. 12 (1962)

SOURCE: Zavodskaya laboratoriya, v. 29, no. 8, 1963, 924-926

TOPIC TAGS: silane, silicone, benzidine, fluosilicic acid, fluosilicate

ABSTRACT: The method is based on the decomposition of monomeric and polymeric alkoxysilanes by 0.3-normal ethanol solution of hydrofluoric acid, and on the precipitation of the formed fluosilicic acid by benzidine. The complex is subsequently acidimetrically titrated. From 0.03-0.05 grams of the organic silicon compound are placed in a 150-200 ml polyethylene beaker containing 10 ml of a 0.3-normal ethanol solution of HF. The mixture is stirred for 2 minutes, and 10 ml of a 1% alcoholic solution of benzidine are added to it. The precipitate is separated on a filter and washed with alcohol. The filter is then placed in a 250-ml Erlenmeyer flask, to which 150 ml of hot water are added. The H₂SiF₆ is titrated with 0.1-normal KOH, using phenolphthalein as indicator. This procedure

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| may be replaced by ti number of alkoxysilan fluosilicate complex with double refractio ASSOCIATION: none | tration of the surplus HF. Both mes, providing a maximum error of 0 of the formula $C_{12}H_{12}N_2\cdot H_2SiF_6$ for n and an extinction angle of 42° . | methods were tested on a 0.19%. The benzidine- rms crystalline needles Orig. art. has: 2 tables. |
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